

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

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Well Operator's Report of Well Work

DEC 22 2011

Farm name: TINCHER, DAVID Operator Well No.: _____

WV GEOLOGICAL SURVEY
2 MORGANTOWN, WV

LOCATION: Elevation: 1690' Quadrangle: NESTORVILLE

District: COVE County: BARBOUR
Latitude: 14,230 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude: 240 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
560 Epsilon Drive Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	Sanded In
Inspector: Bryan Harris				
Date Permit Issued: 11/20/09	9 5/8"	461	461	180
Date Well Work Commenced: 10/25/11				
Date Well Work Completed: 11/02/11	7"	1862	1862	310
Verbal Plugging:				
Date Permission granted on:	4 1/2"	0	5510	195
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft.): 5626				
Total Measured Depth(ft.): 5626				
Fresh Water Depth (ft.): 165				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 115, 615				
Void(s) encountered (N/Y) Depth(s): N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 5TH ELK Pay zone Depth (ft) 5398 - 5407
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 219 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 850 psig(surface pressure) after 48 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 5025 - 5029
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: _____ Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Stephen J. Payne 12/15/11
Signature Date

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ___ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
 Y/N Y/N Y/N

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 5th Elk 5398' - 5407' (21 shots). BD 3818 #. 200 sks 40/70 & 106 sks 20/40. 665 bbl. Gel Frac.

Perfed 3rd Elk 5025' - 5029' (16 shots). BD 3943 #. 150 sks 40/70 & 113 sks 20/40. 653 bbl. Gel Frac.

Perfed 1st Elk 4668' - 4672' (12 shots). BD 3000 #. 100 sks 40/70 & 110 sks 20/40. 520 bbl. Gel Frac.

Perfed Alexander 4342' - 4367' (24 shots). BD 2600 #. 200 sks 40/70 & 107 sks 20/40. 617 bbl. Gel Frac.

Perfed Benson 4140' - 4148' (16 shots). BD 4226 #. 100 sks 40/70 & 118 sks 20/40. 508 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	16	
SANDSTONE	16	32	
SANDY SHALE	32	54	
SHALE	54	80	
SANDSTONE	80	100	
RED ROCK	100	115	
COAL	115	120	
SHALE	120	172	1/2" FW @ 165'
SANDY SHALE	172	220	
SANDSTONE	220	295	
SANDY SHALE	295	370	
SANDSTONE	370	420	
SANDY SHALE	420	510	
SANDSTONE	510	615	
COAL	615	620	
SHALE	620	780	
SANDSTONE	780	900	
SANDY SHALE	900	1300	
RED ROCK	1300	1364	
LITTLE LIME	1364	1380	
PENCIL CAVE SHALE	1380	1408	
BIG LIME	1408	1640	
SHALE	1640	1654	
WEIR SANDSTONE	1654	1791	
BEREA SANDSTONE	1791	1818	
SHALE	1818	1835	
GANTZ SANDSTONE	1835	1869	
LOWER GANTZ SANDSTONE	1869	1922	
SANDY SHALE	1922	2483	
BAYARD SANDSTONE	2483	2545	
SPEECHLEY A SANDSTONE	2545	2707	
SPEECHLEY C SANDSTONE	2707	2748	
SANDY SHALE	2748	3104	
BALLTOWN A SANDSTONE	3104	3301	
BALLTOWN C SANDSTONE	3301	3310	
SANDY SHALE	3310	4130	
BENSON SILTSTONE	4130	4152	
SANDY SHALE	4152	4341	
ALEXANDER	4341	4383	
SHALE	4383	4556	
1ST ELK SILTSTONE	4556	4586	
SANDY SHALE	4586	4821	
2ND ELK SILTSTONE	4821	4870	
SHALE	4870	5027	
3RD ELK SILTSTONE	5027	5050	
SHALE	5050	5345	
5TH ELK SILTSTONE	5345	5420	
SANDY SHALE	5420	5626	TD

Third Producing formation:	<u>1ST ELK</u>	Pay zone Depth (ft)	<u>4668 - 4672</u>
Gas: Initial open flow:	<u>Co-mingled</u>	MCF/D	Oil: Initial open flow: <u>0</u> Bbl/d
Final open flow	<u>Co-mingled</u>	MCF/D	Oil: Final open flow: <u>0</u> Bbl/d
Time of open flow between initial and final tests:	<u> </u>	Hours	
Static rock Pressure:	<u>Co-mingled</u>	psig(surface pressure) after	<u> - </u> Hours

Fourth Producing formation:	<u>ALEXANDER</u>	Pay zone Depth (ft)	<u>4342 - 4367</u>
Gas: Initial open flow:	<u>Co-mingled</u>	MCF/D	Oil: Initial open flow: <u>0</u> Bbl/d
Final open flow	<u>Co-mingled</u>	MCF/D	Oil: Final open flow: <u>0</u> Bbl/d
Time of open flow between initial and final tests:	<u> </u>	Hours	
Static rock Pressure:	<u>Co-mingled</u>	psig(surface pressure) after	<u> - </u> Hours

Fifth Producing formation:	<u>BENSON</u>	Pay zone Depth (ft)	<u>4140 - 4148</u>
Gas: Initial open flow:	<u>Co-mingled</u>	MCF/D	Oil: Initial open flow: <u>0</u> Bbl/d
Final open flow	<u>Co-mingled</u>	MCF/D	Oil: Final open flow: <u>0</u> Bbl/d
Time of open flow between initial and final tests:	<u> </u>	Hours	
Static rock Pressure:	<u>Co-mingled</u>	psig(surface pressure) after	<u> - </u> Hours